39
MUTAGENICITY OF INDOOR AIR IN A RESIDENTIAL FIELD STUDY
J. Lewtas, S. Goto, K. Williams, J. Chapell, N. Wilson
U.S. Environmental Protection Agency, Research Triangle Park, N.C. and The Institute of Public Health, Tokyo, Japan.

40
VALIDATION STUDIES OF A MICROSUSPENSION MODIFICATION OF THE AMES BACTERIAL MUTAGENESIS ASSAY AND ITS APPLICATION TO CIGARETTE SMOKE CONDENSATE
D.A. Lee, C.K. Lee, D.J. Doolittle
R.J. Reynolds Tobacco Company, Winston Salem, NC

41
THE EFFECTS OF TREATMENT CONDITIONS ON SISTER CHROMATID EXCHANGE INDUCTION BY CIGARETTE SMOKE CONDENSATE
C.K. Lee, B.C. Brown, L.A. Reed, G.D. Lowe
R.J. Reynolds Tobacco Company, Winston-Salem, NC

42
S9 FROM RATS TREATED WITH CIGARETTE SMOKE CONDENSATE: MUTAGENIC RESPONSE OF B(a)P, QUERCETIN AND AFB, IN THE AMES ASSAY
M. Gomes, J. Ruff, A. Flores, T. Chaveca, J. Rotllan, M. Halpern
Faculty of Medical Sciences, Lisbon, Portugal

43
DIESEL EXHAUST MUTAGENICITY DURING MINING
G. Lofroth, G. Lagerkvist, F. Nordstrom
Nordic School of Public Health, Gothenburg, University of Stockholm and University of Lulea, Lulea, Sweden

44
MUTAGENIC POTENCY OF BINARY MIXTURES OF POLYCYCLIC AROMATIC AND NITROAROMATIC HYDROCARBONS
T. Kelbe, K.C. Donnelly, A. Algeeman, T.R. Irvin
Texas A&M University, College Station, TX

45
TESTING OF PETROLEUM MIDDLE DISTILLATES IN A MODIFIED AMES ASSAY
G.R. Blackburn, R.A. Deitch, C.A. Schreiner, C.R. Mackerer
Mobil Environmental & Health Science Laboratory, Princeton, NJ.

46
EXTRACTION AND METABOLIC ACTIVATION PARAMETERS FOR PETROLEUM FRACTIONS IN A MODIFIED AMES ASSAY
R.A. Deitch, G.R. Blackburn, C.A. Schreiner, C.R. Mackerer
Mobil Environmental & Health Science Laboratory, Princeton, NJ

47
ACTIVATION CONDITIONS FOR DETECTING THE MUTAGENICITY OF AN EXTRACT OF A CRUDE PETROLEUM OIL IN MOUSE LYMPHOMA CELLS
T.R. Barfknecht, R.C. Nerpouse, R.W. Nesmith
Pharmakon Research International, Incorporated, Waverly, PA

2501644848

Source: https://www.industrydocuments.ucsf.edu/docs/zkhl0000

48
THE GENOTOXIC AND CARCINOGENIC POTENTIAL OF ENGINE OILS AND HIGHLY REFINED LUBRICATING OILS
R.J. McKee, R.T. Frayseth (Introd. by S.C. Lewis)
Exxon Biomedical Sciences Incorporated, East Millstone, NJ

49
EVALUATION OF *IN VIVO* AND *IN VITRO* SHORT-TERM TESTS FOR SCREENING HAZARDOUS WASTES
D.M. DeMarini, J.P. Iamon, V.S. Houk, S. Warren, S. Sandhu, G. Acuda, K. Brock, M.M. Moore, T. Paisley, R. Williams
U.S. Environmental Protection Agency and Environmental Health Research and Testing, Research Triangle Park, NC

50
USE OF THE MICROSCREEN PHAGE INDUCTION ASSAY TO ASSESS THE GENOTOXICITY OF FOURTEEN UNFRACTIONATED HAZARDOUS WASTES
V.S. Houk, D.M. DeMarini
U.S. Environmental Protection Agency, Research Triangle Park, NC

TUMOR PROMOTION

51
A TPA RESISTANT SUBPOPULATION OF HUMAN BRONCHIAL EPITHELIAL CELLS HAS ENHANCED GROWTH POTENTIAL
J.M. Sanchez, C.J. Borchke, J.D. Ingebrigt, J.W. Hollerbach
Chemical Industry Institute of Toxicology, Research Triangle Park, NC and Duke University Medical Center, Durham, NC

52
EXAMINATION OF THE TUMOR PROMOTING CAPABILITY OF *STERCULIA FOETIDA* OILS IN MALE F-344 RAT PANCREAS
R.T. Stolzenberg, D.K. Sparks, N. Palowski, J.C. Mineau
SRI International, Menlo Park, CA and Oregon State University, Corvallis, OR

CELL TRANSFORMATION

53
INDUCTION OF MORPHOLOGICAL TRANSFORMATION IN C3H/10T1/2 CL8 MOUSE EMBRYO FIBROBLASTS BY CARCINOGENIC NICKEL COMPOUNDS
T. Miura, J.R. Laddiph
University of Southern California School of Medicine, Los Angeles, CA

54
ACRYLONITRILE AND ACRYLAMIDE FAIL TO TRANSFORM C3H/10T1/2 CELLS
D.J. Abernethy, C.J. Borchke
Chemical Industry Institute of Toxicology, Research Triangle Park, NC

55
DEVELOPMENT OF AN EXPERIMENTAL SYSTEM TO EVALUATE THE ACTIVATION OF ONCOGENES BY CHEMICALS
K.F. Li, G.A. Myers, A.M. Kitz, C.W. Johnson
Monsanto Company, St. Louis, MO

2501644849

Source: https://www.industrydocuments.ucsf.edu/docs/zkhl0000

OG 1 C.V 90, 1K

THURSDAY, 1:30 PM
Ballroom 5

DNA REPAIR
J.L. Epler and K.K. Richardson, Presiding

1:30
RADIATION EFFECT ON THE *DROSOPHILA MELANOGASTER* GENETIC MATERIAL
J. Guzman R., C. Cortinas de Nava, O. Olvera R., M.E. de la Rosa D., Departamento de Radiobiología, I.N.I.N., Salazar, Estado de Mexico, and Instituto de Investigaciones Biomedicas, Mexico City, Mexico

1:45
DNA BASE CHANGES INDUCED FOLLOWING *IN VIVO* EXPOSURE OF UNADAPTED AND ADAPTED *E. COLI* TO N-METHYL-N'-NITRO-N-NITROSOGUANIDINE
K.K. Richardson, R.M. Crosby, T.R. Skopek, Chemical Industry Institute of Toxicology, Research Triangle Park, NC

2:00
FORWARD AND REVERSE MUTATION AT THE *HPRT* LOCUS IS DECREASED IN CHINESE HAMSTER CELLS EXPRESSING *E. COLI* ALKYLTRANSFERASE
M. Fox, J. Brennand, G.P. Margison, Paterson Institute for Cancer Research, Christie Hospital, Manchester, and Imperial Chemical Industries, Cheshire, UK

2:15
MOLECULAR ANALYSIS OF GENETIC ALTERATION AT THE *APRT* LOCUS IN DNA REPAIR-PROFICIENT OR DEFICIENT CHO CELLS
J.E. Stegeren, G.M. Adair, C. MacKinnon, R.A. Brotterman, F.A. Kimmitt, The University of Texas System Cancer Center, Smithville, TX

THURSDAY, 1:30 PM
Ballroom 6

HUMAN POPULATION MONITORING II
W.L. Bigbee and J.A. Reidy, Presiding

1:30
SMOKING AND CHROMOSOME ABERRATIONS: EFFECTS OF CULTURE TIME AND CULTURE MEDIUM FOLATE
J.A. Reidy, A.T.L. Chen, J.L. Annest, T. Welty, Centers for Disease Control, Atlanta, GA

1:45
SMOKING AND CHROMOSOME ABERRATIONS: EFFECT OF INDIVIDUAL FOLATE LEVELS ON ABERRATIONS IN 96 HOUR, LOW FOLATE CULTURES
A.T.L. Chen, J.A. Reidy, J.L. Annest, T. Welty, Centers for Disease Control, Atlanta, GA

2:00
THE EFFECT OF LOW LEVEL STYRENE EXPOSURE IN BOAT BUILDERS ON SISTER CHROMATID EXCHANGE FREQUENCY
K.T. Kelsey, R. Leal, D. Wright, J.R. Little, Harvard School of Public Health, Boston, MA and Mt. Sinai Medical School, New York, NY

2:15
SULFASALAZINE CAUSES CHROMOSOME CHANGES IN PATIENTS WITH INFLAMMATORY BOWEL DISEASE
J.M. Mackay, D.F. Fox, P.W. Brunt, G.M. Hawksworth, J.E. Brown, York University, Toronto, Ontario, Canada and University of Aberdeen, Scotland

2501644850

Source: https://www.industrydocuments.ucsf.edu/docs/zkhl0000

06 NOV 90 18

THURSDAY, 1:30 PM
Parlors 1-3

COMPLEX MIXTURES II
N.Y. Kado and S.J. Rinkus, Presiding

1:30
MUTAGENICITY AND DNA DAMAGE IN CHINESE HAMSTER OVARY CELLS TREATED WITH COFFEE
S.J. Rinkus, S.J. Tyler, R.T. Taylor, Lawrence Livermore National Laboratory, Livermore, CA

1:45
NITROSATABLE PRECURSORS IN GRILLED FOODS
M. Nagao, K. Wakabayashi, M. Yano, T. Sugimura, National Cancer Center Research Institute, Tokyo, Japan

2:00
IDENTIFICATION AND MUTAGENICITY OF THE AMINOIMIDAZO-QUINOXALINES IN FRIED BEEF
M.G. Knize, N.H. Shen, S.K. Healy, J.S. Felton, Lawrence Livermore National Laboratory, Livermore, CA

2:15
FORMATION OF THE FRIED GROUND BEEF MUTAGENS 2-AMINO-3-METHYLIMIDAZO[4,5-f]QUINOLINE (IQ) AND 2-AMINO-3-METHYL-6-PHENYLIMIDAZO-[4,5-b]PYRIDINE (PhIP) FROM L-PHENYLALANINE (Phe), CREATININE (Crn) AND (OR CREATININE)
R.T. Taylor, E. Felix, M.G. Knize, J.S. Felton, Lawrence Livermore National Laboratory, Livermore, CA

THURSDAY, 1:30 PM
Parlors 7-9

MAMMALIAN CELLS *IN VIVO*
W.W. Au and M.T. Goldberg, Presiding

1:30
CHROMOSOME DAMAGING EFFECTS OF ALKYLATED AND HALOGENATED BENZENES ON BONE MARROW OF MICE
E. Mohtashamipur, K. Norpoth, Institute of Hygiene and Occupational Medicine, University Medical Center, Essen, W. Germany

1:45
IDENTIFICATION OF BENZENE AS A POTENT ENVIRONMENTAL GENOTOXIC AGENT
W.W. Au, J.B. Ward, Jr., M.T. Muskó, B.L. Harper, V.M.S. Ramanujam, M.S. Legator, The University of Texas Medical Branch, Galveston, TX

2:00
PERSISTENCE OF SCE-INDUCING DNA DAMAGE IN LYMPHOCYTES OF MICE ADMINISTERED L-PAM
P.J. Gurtle, M.K. Conner, J.H. Turner, University of Pittsburgh, Pittsburgh, PA

2:15
EFFECT OF CYSTEAMINE ON SCE INDUCTION BY GAMMA RAYS IN MURINE BONE MARROW CELLS *IN VIVO*
P. Morales-Ramírez, M.T. Mendieta Cruz, Instituto Nacional de Investigaciones Nucleares, Mexico City, Mexico

2501644851

Source: https://www.industrydocuments.ucsf.edu/docs/zkhl0000

OG NOV 89 tx

THURSDAY, 2:30 PM
Ballroom 5

DNA REPAIR
J.L. Epler and K.K. Richardson Presiding

2:30
COMPLEMENTATION OF DNA REPAIR DEFICIENCY IN MAMMALIAN CELLS BY THE TRANSFER OF A SINGLE HUMAN CHROMOSOME
R.S. Athwal, J. Bolly, L.H. Thompson, New Jersey Medical School, Newark, NJ and Lawrence Livermore National Laboratory, Livermore, CA

2:45
MOLECULAR CLONING OF A HUMAN REPAIR GENE RESPONSIBLE FOR REJOINING OF DNA DOUBLE STRAND BREAKS
D.J. Chen, P.A. Jeggo, M.A. Maclinnes, R.J. Reynolds, O.F. Siraglio, J.S. Tisnell, Los Alamos National Laboratory, Los Alamos, NM

3:00
A PHOTOBIOLOGICAL EVALUATION OF TANNING BEDS
C.L. Hix, A.A. Francis, W.L. Harrier, J.D. Regan, Tennessee Technological University, Cookeville, TN and Oak Ridge National Laboratory, Oak Ridge, TN

3:15
REPAIR OF DNA DAMAGED BY ACTIVATED METABOLITES OF AZABENZO(a)PYRENE IN HUMAN CELLS
J.L. Epler, J.D. Regan, Oak Ridge National Laboratory, Oak Ridge, TN

THURSDAY, 2:30 PM
Ballroom 6

HUMAN POPULATION MONITORING II
W.L. Bigbee and J.A. Reidy, Presiding

2:30
6-THIOGUANINE RESISTANT T-LYMPHOCYTE DETERMINATION AS A POSSIBLE INDICATOR OF RADIATION EXPOSURE
P. Ostrosky Wegman, R. Montero, M. Gomez, C. Cortinas de Nava, Instituto de Investigaciones Biomedicas, Mexico City, Mexico

2:45
HPRT- MUTANT FREQUENCY AMONG RADIOTHERAPY TECHNICIANS IS RELATED TO LEVELS OF RECENTLY RECEIVED DOSE OF IONIZING RADIATION
A.M. Sigurdson, W.L. Bradley, J. Swartz, R. Messing, Universite du Quebec a Montreal and Institut du Cancer de Montreal, Montreal, Quebec, Canada

3:00
MUTANT T LYMPHOCYTES IN HUMAN CORD BLOOD
M.J. McGinniss, R.J. Albertini, University of Vermont, Burlington, VT

3:15
EVIDENCE FOR ELEVATED SOMATIC CELL MUTATIONS AT THE GLYCOPHORIN A LOCUS IN A-BOMB SURVIVORS
R.G. Langlois, W.L. Bigbee, M. Akiyama, R.H. Jensen, Lawrence Livermore, CA and Radiation Effects Research Foundation, Hiroshima, Japan

3:30 - 4:00 COFFEE BREAK

2501644852

Source: https://www.industrydocuments.ucsf.edu/docs/zkhl0000

OC NOV 90 18

THURSDAY, 2:30 PM
Parlors 1-3

COMPLEX MIXTURES II
N.Y. Kado and S.J. Rinkus, Presiding

2:30
MUTAGENIC METABOLITES IN URINE AND FECES OF RATS FED WITH 2-AMINO-3,8-DIMETHYLIMIDAZO[4,5-f]QUINOXALINE (MeIQx), A CARCINOGENIC MUTAGEN PRESENT IN COOKED MEAT
H. Hayton, H. Kasai, S. Yokoyama, T. Miyazawa, Z. Yamaizumi, S. Sato, S. Nishimura, S. Arimoto, T. Hayton, Y. Ohara, Okayama University, Okayama, National Cancer Center, and University of Tokyo, Tokyo, Japan

2:45
COMPARATIVE GENOTOXICITY OF MAINSTREAM AND SIDESTREAM CIGARETTE SMOKE
L.J. Michels, P.M. Simmons, C.H. Myers, J.J. Hughes, J.H. Craven, Research Triangle Institute, and U.S. Environmental Protection Agency, Research Triangle Park, NC

3:00
GENOTOXIC EMISSION FACTORS FOR SIDESTREAM CIGARETTE SMOKE COMPONENTS
G. Lofroth, K. Burton, G. Goldstein, L. Forehand, K. Hammond, J. Mumford, R. Seila, J. Lewtas (Intrnl. by W. Stenfors, Nordic School of Public Health, Gothenburg, Sweden, U.S. EPA AND RTI/RTP, NC and University of Massachusetts, Worcester, MA

3:15
MUTAGENICITY OF PARTICULATE MATTER COLLECTED ON PERSONAL LOW VOLUME SAMPLING FILTERS FROM INDIVIDUALS EXPOSED TO ENVIRONMENTAL TOBACCO SMOKE (PASSIVE CIGARETTE SMOKE)
N.Y. Kado, S.J. Rinkus, S.M. McCarthy, M.B. Schecter, S. Wanke, S.K. Hammond, Air Resources Board, Sacramento, CA, University of California, Davis, CA, and University of Massachusetts, Worcester, MA

THURSDAY, 2:30 PM
Parlors 7-9

MAMMALIAN CELLS *IN VIVO*
W.W. Au and M.T. Goldberg, Presiding

2:30
THE RELATIONSHIP BETWEEN CHEMICALLY INDUCED HYPERPLASIA AND THE INDUCTION OF NEOPLASIA IN THE RAT KIDNEY
D.J. Leary, T.L. Goldsworthy, J. Smith-Oliver, J.A. Popp, H.B. Butterworth, Chemical Industry Institute of Toxicology, Research Triangle Park, NC

2:45
COMPARATIVE TUMORIGENICITY AND DEOXYRIBONUCLEIC ACID CONTENT OF TWO PHENOTYPICALLY VARIANT CELL TYPES DERIVED FROM MOUSE ADENOCARCINOMA
M.A. Bempong, K.I. Taylor, Norfolk State University, Norfolk, VA

3:00
THE NUCLEAR ABERRATION ASSAY APPLIED TO HAIR FOLLICLE CELLS AND URINARY BLADDER EPITHELIUM
M.T. Goldberg, A.M. Vadelago, V.J. Mamprey, University of Guelph, Guelph, Ontario, Canada

3:15
THE NUCLEAR ABERRATION ASSAY REVISITED
M.J. Wargovich, M.T. Goldberg, University of Texas System Cancer Center, Houston, TX and University of Guelph, Ontario, Canada

3:30 - 4:00 COFFEE BREAK

2501644853

Source: https://www.industrydocuments.ucsf.edu/docs/zkhl0000

OX 2 NOV 90 .18

THURSDAY, 4:00 pm - 6:00 pm SYMPOSIUM

NEW APPROACHES IN ENVIRONMENTAL MUTAGENESIS

Ballroom 5 Raymond R. Tice, Presiding

Sponsor: R.J.R. Nabisco

This symposium will introduce and summarize exciting new methodologies for the detection and analysis of genotoxic damage in eukaryotic cells. The novel methods presented will utilize *in vitro* and *in vivo* systems and range from single cell approaches for detecting DNA damage, to a sensitive and reliable technique for the identification of agents capable of inducing aneuploidy.

4:00 FLUORESCENCE HYBRIDIZATION TECHNIQUES FOR THE ANALYSIS OF GENETIC DAMAGE
Daniel Pinkel
Lawrence Livermore National Laboratory

4:30 ANALYSIS FOR GENOTOXIC EFFECTS USING RODENT-HUMAN MONOCHROMOSOMAL HYBRIDS
Raghbir Athwal
New Jersey Medical School

5:00 A SIMPLE TECHNIQUE FOR QUANTITATION OF LOW LEVELS OF DNA DAMAGE IN SINGLE CELLS
Narendra Singh
National Institute on Aging

5:30 SELECTIVE ACTIVATION OF ENDOGENOUS ECOTROPIC RETROVIRUSES IN THE MOUSE
Richard Irons
Chemical Industry Institute of Toxicology

6:30 pm - 9:30 pm AWARDS AND RECEPTION

Ballroom 5

Sponsors: Microbiological Associates, Inc.
Hazelton Laboratories America, Inc.

2501644854

Source: https://www.industrydocuments.ucsf.edu/docs/zkhl0000

06 NOV '10 fg

A Multidisciplinary Approach to Toxicology

The Research Triangle Institute (RTI) offers unique capabilities for a multidisciplinary approach in evaluating the toxic potential of pure compounds and complex environmental mixtures. This includes both method development and validation as well as chemical sample collection and analysis. The research staff of over 1,200 employees can assist your organization with a research approach and a cost estimate. If RTI can be of service, call the number listed below.

RTI: Capabilities

- Methods Development and Validation
- Collection of Samples
- Chemical Extraction
- Chemical Analysis
- Bioassay: Genetic Toxicology
  - In Vivo Mutagenesis
  - Teratology
  - Reproductive Effects
  - Acute Toxicology
  - Neurobehavioral Toxicology
  - Metabolism Studies
  - Endocrine Services
    - Quantitation of Proteins/Steroids (by EIA/RIA)
    - Design of Endocrine Experiments
    - Receptor Binding Assays
- Statistical Analysis
- Risk Assessment

RTI: Experience

- Contracts and Grants from Government, State and Industrial Clients
- 64 Million Dollars in Business (1989)
- 28 Years Experience
- Services Individually Designed to the Client's Specifications
- Independent Non Profit Research Organization Located in the Research Triangle Park, North Carolina

Questions: For an immediate reply contact:

Dr. Frederick J. DeSerres, Director
Center for Life Sciences and Toxicology
Research Triangle Institute
Post Office Box 12194
Research Triangle Park, North Carolina 27709
(919) 541-6516

RTI

37

2501644855

Source: https://www.industrydocuments.ucsf.edu/docs/zkhl0000

06 NOV 90 48

10:30 GERM CELL MUTATION IN MICE: STANDARDS FOR PROTECTING THE HUMAN GENOME

Udo Ehling
Gesellschaft fur Strahlen- und Umweltforschung, FRG

11:00 GERM CELL MUTATION IN HUMAN BEINGS: CURRENT RESULTS FROM JAPAN

James Neel
University of Michigan

11:30 OTHER APPROACHES: SENTINEL PHENOTYPES AND OFFSPRING OF CANCER PATIENTS

John Mulvihill
National Cancer Institute

12:00 pm — ANNUAL BUSINESS MEETING

Ballroom 5

1:30 pm - 2:30 pm — SPECIAL LECTURE

INTERACTION OF CANCER RESEARCH AND ENVIRONMENTAL MUTAGEN STUDIES - PAST, PRESENT AND FUTURE

TAKASHI SUGIMURA
PRESIDENT
NATIONAL CANCER CENTER, JAPAN

Ballroom 5

Sponsor: Pharmakon Research International, Inc.

2501644856

Source: https://www.industrydocuments.ucsf.edu/docs/zkhl0000

OCT 90 1X

FRIDAY, 10 APRIL 1987
Ballroom 4
2:30 - 4:00 PM

POSTER SESSION II

Posters are to be set up by 9:00 am of their scheduled day, and to remain up for viewing until 5:00 pm. It is required that an author be present during the scheduled poster session.

Coffee will be available at the beginning of the Poster Session.

RISK ASSESSMENT

1
GENETIC TOXICOLOGY: A CRITICAL APPRAISAL
D. Clive
Burroughs Wellcome Company, Research Triangle Park, NC

2
SIGNIFICANCE OF NON-GENOTOXICITY IN THE PREDICTION OF CARCINOGENIC RISK TO HUMANS
S.F. Purvis, A.H. Shedroff, D. Van der Sluis, F.K. Reinhart, H.S. Rosenkranz
Case Western Reserve University School of Medicine, Cleveland, OH

3
GENOTOXICITY ASSESSMENT OF TRIMETREXATE: A NEW ANTICANCER DRUG
M.I. Krupka, J.C. Theiss, G.D. Stoner, F.A. de la Iglesia
Warner Lambert/Parke-Davis Pharmaceutical Research, Ann Arbor, MI and Medical College of Ohio, Toledo, OH

4
QUANTITATIVE COMPARATIVE MUTAGENICITY TESTING OF A DRUG CANDIDATE; COUPLING OF KNOWLEDGE OF MECHANISMS OF TOXIFICATION PROVIDES A POWERFUL RISK ASSESSMENT
G.S. Ahrod, T. Clough, P.F. Hartisch, J. Maturen, J. Mayo, L. Stankowski, D. Swenson, R. Trum, R. Valencia, S.K. Weir, D. Zimmer
The Upjohn Company, Kalamazoo, MI, Pharmakon Research International, Waverly, PA, and University of Wisconsin, Madison, WI

5
INFLUENCE OF THE VARIABLE EXPRESSION OF THE A^y MUTATION ON THE PROPORTION OF (YS x VY) F1 HYBRID MICE SUSCEPTIBLE TO LINDANE ASSOCIATED TUMOR FORMATION
G.L. Wolff, R.E. Morrissey
National Center for Toxicological Research, Food and Drug Administration, Department of Health and Human Services, Jefferson, AR, and Pathology Associates Incorporated, Damascus, MD

6
MUTAGENICITY ACTIVITY OF FISH MUSCLE EXTRACTS
R.D. Bevins, C.E. Mohr, O.C. Pancorbo
East Tennessee State University, Johnson City, TN, and University of Georgia, Athens, GA

2501644857

Source: https://www.industrydocuments.ucsf.edu/docs/zkhl0000

DNA REPAIR

7
CLONING OF A HUMAN GENE THAT RESTORES NORMAL SCE AND STRAND-BREAK REPAIR TO CHO MUTANT LINE EM9
K.W. Brookman, L.H. Thompson, C.C. Collins, S.A. Stewart, J.J. Nikkel, A.V. Carrano
Lawrence Livermore National Laboratory, Livermore, CA

8
CLONING AND CHARACTERIZATION OF A HUMAN GENE WHICH COMPLEMENTS THE NUCLEOTIDE EXCISION REPAIR DEFICIENT CHO CELL LINE UV5
C.A. Weber, E.P. Salazar, S.A. Stewart, L.H. Thompson
Lawrence Livermore National Laboratory, Livermore CA

9
ISOLATION OF HUMAN DNA SEQUENCES ASSOCIATED WITH A DNA EXCISION REPAIR GENE
M.A. Maclaine, R. Okinaka, D.J. Chen, R.J. Reynolds, J.G. Tainer, G.F. Strniste
Los Alamos National Laboratory, Los Alamos, NM

10
RESISTANCE TO THE TOXIC EFFECTS OF 5-BROMO-2'-DEOXYURIDINE AND WHITE-LIGHT IRRADIATION IN A SYRIAN HAMSTER CELL LINE
E.R. Kaufman
University of Illinois College of Medicine, Chicago, IL

11
TEMPERATURE AND SPECTRAL STUDIES ON A UV-INDUCED PHOTOSENSITIVE LESION IN THE DNA OF HUMAN CELLS
A.A. Francis, J. D. Regan
Oak Ridge National Laboratory, Oak Ridge, TN

12
ANALYSIS OF THREE REPAIR PATHWAYS ASSOCIATED WITH MNNG SUSCEPTABILITY IN LEUKOCYTES FROM ALZHEIMER'S DISEASE PATIENTS
J.D Bartlett, W.G. Bradley, S.H. Robbins
University of Vermont, Burlington, VT

13
EVALUATION OF ACRYLAMIDE IN RODENT HEPATOCYTE DNA/REPAIR ASSAYS
T.R. Barfknecht, D.J. Mecca, R.W. Naismith
Pharmakon Research International, Incorporated, Waverly, PA

14
EVALUATION OF FOUR SCORING METHODS AND COMMPARISON OF RAT STRAIN DIFFERENCES IN THE *IN VITRO* UNSCHEDULED DNA SYNTHESIS (UDS) ASSAY
P.R. Harbach, C.R. Grandgeorge, S.K. Wiser, A.L. Smith, C.S. Aaron
The Upjohn Company, Kalamazoo, MI

2501644858

Source: https://www.industrydocuments.ucsf.edu/docs/zkhl0000

06 NOV 90 tg

15
THE ROLE OF DNA EXCISION REPAIR IN THE MODULATION OF MUTAGENICITY INDUCED IN CHINESE HAMSTER CELLS BY 2-AMINOFLUORENE DERIVATIVES
R.T. Okinaka, T.W. Weaky, G.P. Strniste
Los Alamos National Laboratory, Los Alamos, NM

PROKARYOTIC STUDIES

16
FORMALDEHYDE INDUCES DNA BASE CHANGES IN *E. COLI* AND RESTRICTION FRAGMENT PATTERN ALTERATIONS IN HUMAN LYMPHOBLASTS
R.M. Crosby, K.K. Richardson, T.R. Craft, T.R. Skopek, K.B. Benforado, H.L. Liber
Chemical Industry Institute of Toxicology, Research Triangle Park, NC, and Harvard School of Public Health, Boston, MA

17
COLONY PROBING OF *SALMONELLA TYPHIMURIUM HISD3052* REVERTANTS
T.A. Cebula, W.E. Payne, M.W. Trucksess, W.E. Hill
Food and Drug Administration, Washington, DC

18
THE MECHANISM OF AFLATOXIN B, DIRECT-ACTING MUTAGENICITY
H.R. Ojeda, N.Y. Kado, D.F.H. Hsieh
University of California, Davis, CA

19
INDUCTION OF GENETIC DUPLICATIONS IN BACTERIA BY 6-PROPIOLACTONE AND STRYCHNINE
G.R. Hoffmann, K.M. Sprague, C.C. Van Haight, J.A. Wrobel, D.H. Wroblewski
College of the Holy Cross, Worcester, MA

20
MUTATIONAL FINGERPRINT ANALYSIS OF CHEMICAL INTERMEDIATES GENERATED BY DMN, DEN, AND RELATED COMPOUNDS
J.C. Farrelly, J.A. Gordon, S.A. Lusk, P.D. Mullin, M.L. Stewart, R.K. Elespuru
NCI-Frederick Cancer Research Facility, Frederick, MD

21
A GENOTOXIC ANALYSIS OF COBALTOUS ACETATE UTILIZING THE *SALMONELLA* MUTAGENICITY ASSAY AND THE MOUSE MICRONUCLEUS TEST
L.J. Tucceri, M. Bauzon, L. Kocur
Wilkes College, Wilkes Barre, PA

22
MUTAGENICITY STUDY OF SULFUR MUSTARD IN THE *SALMONELLA* HISTIDINE REVERSION TEST
D.L. Stewart (Intern) by R.F. Taylor
Pacific Northwest Laboratories, Richland, WA

2501644859

Source: https://www.industrydocuments.ucsf.edu/docs/zkhl0000

23
MUTAGENICITY STUDIES OF BENZOYL PEROXIDE IN BACTERIA
T.J. Matula, R.H. Dowse, N. Barrett
Health and Welfare Canada, Ottawa, Ontario, Canada

24
MUTAGENICITY OF FINE SAND COLLECTED FROM RIYADH
M.A. Hussain, M.Y. Abou-Easin, A.A.R. AbDihan
King Faisal Specialist Hospital & Research Centre, Riyadh, Saudi Arabia

25
MUTAGENIC ACTION OF CROWN ETHERS
F. Arranz, K. Frankel, S. Garcia, University of Texas, El Paso, TX

26
MUTAGENICITY OF VOLATILE ORGANIC COMPOUNDS COMMONLY FOUND AS CONTAMINANTS IN POTABLE WATER SUPPLIES
T.D. Calandra, J.E. Caruso, S.J. Shahied
New Jersey State Department of Health, Trenton, NJ

27
MUTAGENICITY OF NITROFURANS IN *SALMONELLA TYPHIMURIUM* TA98, TA98NR, AND TA98/1,8-DNP
Y.-C. Ni, R.H. Heflich, E.F. Kaldubar, P.P. Fu
National Center for Toxicological Research, Jefferson, AR

28
MUTAGENICITY OF 31 ORGANIC COMPOUNDS IN A MODIFIED PREINCUBATION AMES ASSAY WITH *SALMONELLA TYPHIMURIUM* STRAINS TA100 AND TA102
T.J. Hughes, D.S. Sigmon, L.G. Monteith, L.H. Myers, J.D. Claxton
Research Triangle Institute and U.S. Environmental Protection Agency, Research Triangle Park, NC

29
INHIBITORY EFFECT OF CHLOROPHYLLIN ON AFLATOXIN B$_1$ INDUCED MUTATION IN *SALMONELLA TYPHIMURIUM*
W.E. Wessel, J. Stewart, H.E. Brockman, T. Ong
National Institute for Occupational Safety and Health, Morgantown, WV and Illinois State University, Normal, IL

30
MUTAGENICITY OF CrIII AND CrVI COMPOUNDS IN THE PRESENCE OF MANNITOL, DITHIOTHREITOL AND ANAEROBIOSIS
S.J. Rogers, D.A. Pegram, E. Zeiger
Montana State University, Bozeman, MT and National Institute of Environmental Health Sciences, Research Triangle Park, NC

31
THE RELATIONSHIP BETWEEN COVALENT DNA BINDING AND REVERTANT YIELD IN THE *SALMONELLA* MUTAGENICITY (AMES) ASSAY - IMPLICATIONS FOR ASSAY SPECIFICITY
R.H. Dashwood, Oregon State University, Corvallis, OR

2501644860

Source: https://www.industrydocuments.ucsf.edu/docs/zkhl0000

32
PRELIMINARY EVALUATION OF TREATMENT AND SELECTION CONDITIONS WHICH EFFECT EXPRESSION OF ANTHRACYCLINE MUTAGENICITY IN *SALMONELLA TYPHIMURIUM*
H.E. Thomas, University of Kentucky, Lexington, KY

33
INCORPORATION OF TA97a INTO A STANDARD AMES TEST PROTOCOL
C.E. Piper, C.D. Kaldas, G.D. Searle & Company, Skokie, IL

34
DYE TECHNIQUE DIFFERENTIATES TEST MATERIAL PRECIPITATE FROM *SALMONELLA TYPHIMURIUM* COLONIES
J.H. Carver, M.L. Machado, T.E. Lawlor, S. Haworth
Chevron Environmental Health Center, Incorporated, Richmond, CA and Microbiological Associates, Incorporated, Bethesda, MD

35
PROTOCOLS FOR THE SOS/UMU CHROMOTEST
C. Barber, G. Smith, W.S. Baker, Clarion University of Pennsylvania, Clarion, PA

CYTOGENETICS

36
DEVELOPMENT OF A MICRONUCLEUS ASSAY TO SCREEN FOR CLASTOGENICITY IN L5178Y MOUSE LYMPHOMA CELLS
C.L. Dunn, K.H. Brock, M.M. Moore, Environmental Health Research and Testing and U.S. Environmental Protection Agency, Research Triangle Park, NC

37
EVALUATION OF A SIMPLIFIED PROTOCOL FOR THE MOUSE BONE MARROW MICRONUCLEUS ASSAY
M. Garriott, C. Piper, A. Kokkino, G.D. Searle & Company, Skokie, IL

38
GENDER AND AGE DIFFERENCES IN THE MICRONUCLEUS TEST WITH BENZENE AND CYCLOPHOSPHAMIDE
E.L. Harper, M.S. Legator
The University of Texas Medical Branch, Galveston, TX

39
AN ANALYSIS OF THE FREQUENCY AND DISTRIBUTION OF MICRONUCLEI IN PERIPHERAL BLOOD ERYTHROCYTES OF CONTROL AND BENZENE EXPOSED MICE
C.A. Luke, R.R. Tice, Brookhaven National Laboratory, Upton, NY

40
COMPARATIVE SENSITIVITY OF *PLEURONECTES LEUCOPUS* AND *MUS MUSCULUS* TO BENZENE INDUCED BONE MARROW DAMAGE.
R. Boucher, C.A. Luke, B.G. Ormiston, D.E. Paquette, R.R. Tice, (Introd. by C. Shellabarger), Brookhaven National Laboratory, Upton, NY

2501644861

Source: https://www.industrydocuments.ucsf.edu/docs/zkhl0000

TX-1 ENV-90 18

41
AN ANALYSIS OF THE TIME-DEPENDENT INDUCTION OF CHROMOSOMAL ABERRATIONS (CA) AND SISTER CHROMATID EXCHANGES (SCE) IN MOUSE BONE MARROW CELLS *IN VIVO*
D.E. Pegoiolo, C.A. Luke, R.R. Tice, Brookhaven National Laboratory, Upton, NY

42
PRELIMINARY COMPARISON OF THREE CYTOGENETIC ASSAYS FOR GENOTOXICITY IN MOUSE BONE MARROW CELLS
K.W. Lewis, C.J. Holbrook, S.L. Linkous, M.R. Roberts (Introd. by A.F. McFee)
Oak Ridge Associated Universities, Oak Ridge, TN

43
A COMPARISON OF THE FREQUENCIES OF CHROMOSOME BREAKAGE IN MOUSE AND HUMAN PERIPHERAL BLOOD LYMPHOCYTES (PBLs) FOLLOWING GAMMA IRRADIATION
A.D. Kligerman, G.L. Erexson, B. Westbrook-Collins, J.W. Allen, E.C. Halperin, G. Honore
Environmental Health Research and Testing, and U.S. Environmental Protection Agency, Research Triangle Park, NC, and Duke University Medical Center, Durham, NC

44
A COMPARISON OF THE FREQUENCIES OF CHROMOSOMAL ABERRATIONS AND MICRONUCLEI IN MOUSE PERIPHERAL BLOOD LYMPHOCYTES EXPOSED TO GAMMA IRRADIATION *IN VITRO*
G.L. Erexson, A.D. Kligerman, J.W. Allen, E.C. Halperin, G. Honore
Environmental Health Research and Testing, and U.S. Environmental Protection Agency, Research Triangle Park, Duke University Medical Center, Durham, NC

45
THE EFFECT OF HYDROXYL RADICAL SCAVENGERS ON X-RAY INDUCED DNA DAMAGE IN NORMAL AND DOWN SYNDROME (DS) LYMPHOCYTES
R.A. MacLaren, W.W. Au, V.M.S. Ramabujam, M.S. Legator
The University of Texas Medical Branch, Galveston TX

46
TOXICITY ASSESSMENT AND *IN VITRO* CHROMOSOME ABERRATION TESTS
M.J. Armstrong, S.M. Galloway
Merck Institute for Therapeutic Research, West Point, PA

47
A COMPARISON OF CYTOTOXICITY INDICATORS FOR *IN VITRO* CYTOGENETICS
D. Newman, D.D. Sedor, R.V. Preston, J.W. Oldham
Merrell Pharmaceutical, Spring House, PA

48
MUTAGENIC ACTION OF SODIUM AZIDE IN MAMMALIAN CELLS
P. Arenaz, University of Texas, El Paso, TX

2501644862

Source: https://www.industrydocuments.ucsf.edu/docs/zkhl0000

06 NOV 80 - 1st

49
GENOTOXICITY STUDIES OF 1,1,1- AND 1,1,2-TRICHLOROACETONES (TCA)
W.F. Blazak, J.R. Meier, B.E. Stewart, D.C. Blackman, J.T. Deahl
SRI International, Menlo Park, CA and U.S. Environmental Protection Agency, Cincinnati, OH

50
EFFECTS OF CHRONIC EXPOSURE TO 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN ON CYTOGENETIC ENDPOINTS IN PERIPHERAL BLOOD LYMPHOCYTES OF THE RHESUS MONKEY
M. Lim, D. Jacobson-Kram, J.R. Williams
Johns Hopkins University Oncology Center, Baltimore, MD

51
EFFECT OF STEROID HORMONES ON CHROMOSOME CHANGES IN CULTURED CHO CELLS
T.S. Kochhar, M. Rueck, M. Cox, H. Doong, Kentucky State University, Frankfort, KY

52
IMMUNE RESPONSE AND CYTOGENETIC EFFECTS OF PRAZIQUANTEL ON CYSTICERCOTIC SWINE
R. Montero, A. Flisser, D. Gonzalez, A. Plancarte, D. Correa, M. Gomez-Chavarin, P. Ostrosky-Wegman
Instituto de Investigaciones Biomedicas, Mexico City, Mexico

53
INTERLABORATORY REPRODUCIBILITY OF CHEMICALS TESTED IN THE *IN VITRO* CHROMOSOME ABERRATION AND SISTER CHROMATID EXCHANGE ASSAYS
B.A. Tainer, E. Zeiger, M.A. Resnick
National Institute of Environmental Health Sciences, Research Triangle Park, NC

54
ANALYSIS OF CHROMOSOME ALTERATIONS DURING TUMOR DEVELOPMENT
C.B. Bunt, R.J. Preston, R.J.M. Fry, Oak Ridge National Laboratory and University of Tennessee Graduate School of Biomedical Sciences, Oak Ridge, TN

55
RESTRICTION ENDONUCLEASE INDUCED CHROMOSOME ABERRATIONS IN HUMAN LYMPHOBLASTOID CELLS
R.J. Preston, G.J. Hosh, R.A. Winegar, University of Tennessee Biomedical Graduate School and Oak Ridge National Laboratory, Oak Ridge, TN

56
THE EFFECTS OF HYDROXYUREA (HU) AND CYTOSINE ARABINOSIDE (araC) ON THE EXPRESSION OF THE COMMON FRAGILE SITE AT 3p14 (hra(3)).
X.Y. Li, Z.A. Yan, X.T. Zhou, Institute of Genetics, Academia Sinica, Beijing, China

57 (Late poster; no abstract)
THE USE OF FERTILISED ONE-CELL EMBRYOS TO DETECT NUMERICAL CHROMOSOME ABERRATIONS
R. Albanese, (Imperial Chemical Industries PLC, Macclesfield Cheshire, England)

2501644863

Source: https://www.industrydocuments.ucsf.edu/docs/zkhl0000